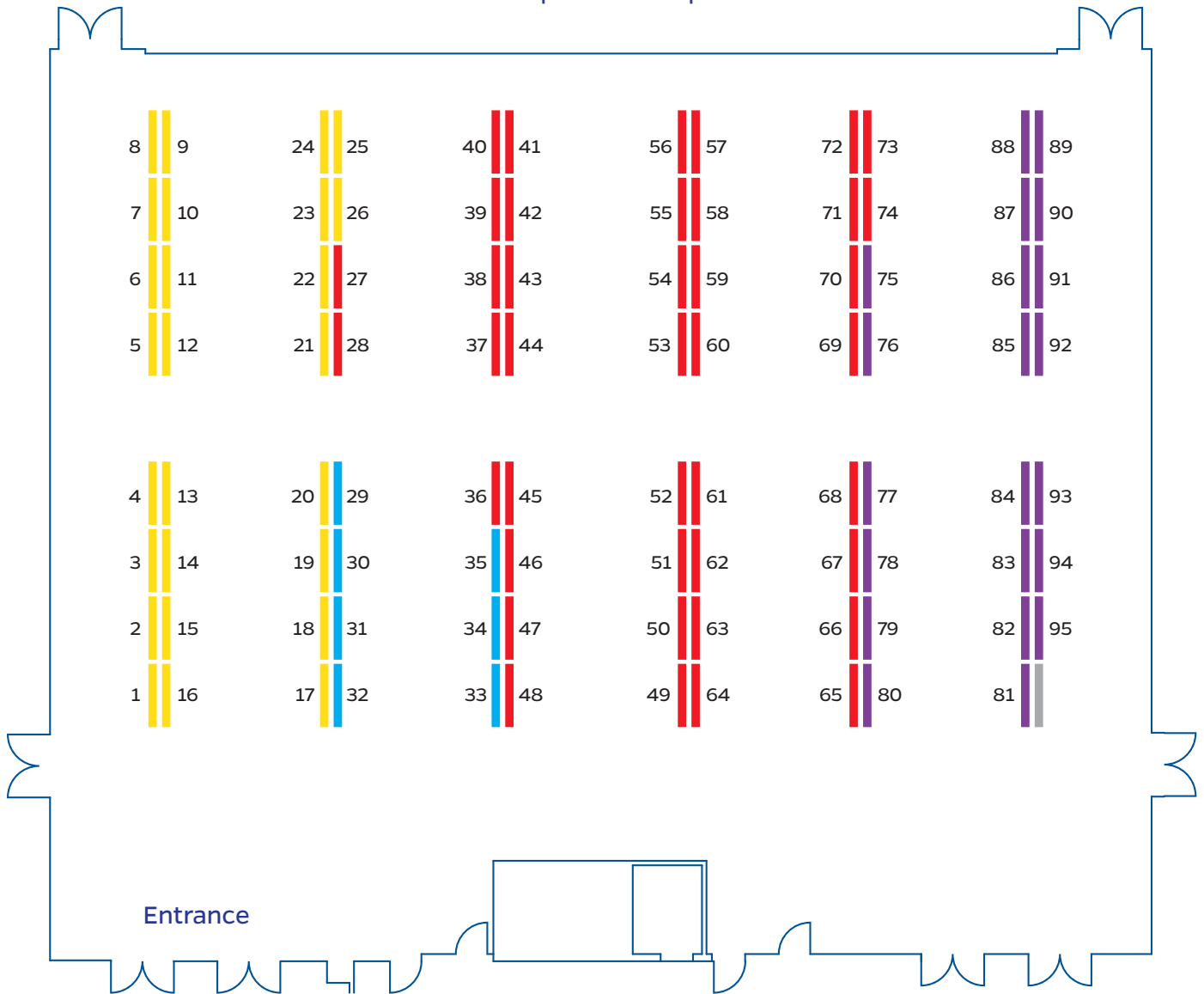


POSTER ROOM LAYOUT

Rion Ballroom | 3rd Floor | Reitz Union



POSTERS BY THEME

- Climate Change and Sea Level Rise Impacts on Ecosystems and Communities
- Water Quality Drivers and Impacts on Public Wildlife and Ecosystem Health
- Water Governance and Environmental Justice
- Water Availability Valuation Allocation and Reuse

POSTER DIRECTORY

Posters are listed in order by topic, poster session hour, then by presenter last name.

Climate Change and Sea Level Rise Impacts on Ecosystems and Communities

Poster #	First Name	Last Name	Organization	Abstract Title	Poster Session
1	Anna	Beard	Whitney Lab, University of Florida	Evaluation of Climate Induced Changes to Porewater Biogeochemistry in Mangrove/Saltmarsh Ecotone	Session One
5	Megan	Black	University of Florida	Watershed Topography as a Predictor of Stream Chemistry Across Non-Glacial Streams in Greenland	Session One
7	Quincy	Faber	University of Florida	Metagenomic Analysis of Algal Communities Inhabiting the Near Surface Aquifer of an Alaskan Glacier	Session One
9	Hallie	Fischman	University of Florida	Invasive Hogs Alter Salt Marsh Functioning, Ecosystem Service Provisioning, and Resilience	Session One
13	Madison	Flint	University of Florida	Surface-Groundwater Mixing Stimulates Nitrous Oxide Production in Carbonate Aquatic Systems	Session One
11	Bethany	Gaffey	FCFWRU / UF SFFGS	Cold Blood in Warming Waters: Conserving Gulf Sturgeon Using Precipitation and Groundwater Models	Session One
15	Zoey	Hendrickson	University of Florida	Invasive Species Pathways: Using the NAS Database to Identify Case Studies for Gap Analysis	Session One
3	Walker	Marechal	FAMU	Investigation of Mechanisms for Methylmercury Bioremediation by Indigenous Bacterial Strain in Comparison with Non-indigenous Metal Resistant Strain of Bacillus Through Proteomics Studies	Session One
18	Collin	Ortals	University of Florida	Crab Consumers Transform Vegetation-Sediment-Flow-Morphology Feedbacks in Southeastern US Salt Marsh	Session One
21	Daniele	Pinton	University of Florida	Morphodynamics of Oyster Reefs in Tidal Flats under Various Sea-Level Rise and Wave Scenarios	Session One
20	Edwin	Rajeev	University of Florida	Impact of Sea Level Rise on Flooding and Wave Load: The Case of the Glass Window Bridge, Bahamas	Session One
23	Justin	Tagle	Florida Atlantic University	Flood Protection Level of Service for Miami-Dade County Current and Future Sea Level Rise Conditions	Session One
25	Songzi	Wu	University of Florida	Interpreting the Trends of Extreme Precipitation in Florida through Pressure Change	Session One
16	Scott	Alford	UF/IFAS Nature Coast Biological Station	Watershed Modification Effects on Coastal Ecosystems: A Synthesis from Key Gulf of Mexico Estuaries	Session Two
2	Prakhin	Assavapanuvat	University of Florida	Organic Carbon Burial in Mangrove-Salt Marsh Ecotones of Apalachicola Bay: The Role of Reactive Iron	Session Two
4	Alexandra	Bijak	University of Florida	Seagrass Species Identity and Historical Cover Influence Sediment Organic Carbon Stocks	Session Two
6	Megan	Donovan	University of Florida	Social and Agricultural Vulnerability to Climate Change Hazards in the Southern Region	Session Two
8	Brady	Evans	University of Florida	Hydrogeology of Local Water Balances Impacted by a Dynamic Saltwater Interface	Session Two
12	Maria Fernanda	Gastelu-Barcena	University of Florida	Transverse Structure of Tidal and Exchange Flows in a Magellan Glacial Fjord	Session Two
10	Fikadu	Getachew	University of Florida	Trends and Variability of Agricultural Drought under Climate Change in Ethiopia	Session Two
14	Megan	Kramer	University of South Florida	Evaluation of Hydrodynamic Effects of Waterway Restoration on an Estuarine Ecosystem	Session Two
17	Madison	Mullen	Florida Gulf Coast University	Surface and Subsurface Hydrology and Flood Mitigation in Estero River Headwaters, Southwest Florida	Session Two

Climate Change and Sea Level Rise Impacts on Ecosystems and Communities (continued)

Poster #	First Name	Last Name	Organization	Abstract Title	Poster Session
19	Jamila	Roth	University of Florida	Does More Variety Mean Higher Stability? Exploring How Seagrass Species Diversity Impacts Resilience	Session Two
22	Satbyeol Joy	Shin	University of Florida	Climate Change Impacts on Streamflow and Nutrient Loading in the Northern Lake Okeechobee Basin	Session Two
24	Emily	Watts	University of Florida	Oxygenation of Long Term Anoxic By Fjord, Sweden: Implications for Organic Carbon Sources and Decay	Session Two
26	Chi	Zhang	University of Florida	How to Develop a Multi-facet QC Procedure for a Ground-based Weather Monitoring Network	Session Two

Water Quality Drivers and Impacts on Public Wildlife and Ecosystem Health

Poster #	First Name	Last Name	Organization	Abstract Title	Poster Session
27	Maximiliano	Barbosa	University of Florida	Drivers of Protistan Diversity in the Oligotrophic Lake Tohopekaliga	Session One
39	Jenna	Brooks	University of South Florida	Settling Behaviors of Stormwater Microplastics	Session One
37	Trista	Brophy	UF School of Natural Resources	Relating Land Cover Change to Flood Runoff Distribution Using Nasa Earth Observations in Kansas	Session One
43	Joe	Carter	University of Florida	The Effect of Training Methodology on Machine Learning Models for Estimating Nutrient Concentrations	Session One
41	Jade	Chery	Florida A & M University	Responses of Microbial Communities of Heavy Metal Contaminations in Lake Talquin	Session One
45	Daniela	Daniele	Florida International University	Urban Rivers as Social-Ecological Systems: An Examination of History & Ecology in the Miami River	Session One
47	Antonio	Diaz	University of Florida	The "Bathysdrone" for Underwater Survey and Mapping	Session One
49	Taylor	Dluzniewski	Florida Fish and Wildlife Conservation Commission	Investigating Drivers of Seasonal Shifts in Fish Habitat Use in The Homosassa River System	Session One
51	Wenchong	He	University of Florida	Challenges and Opportunities for AI in Geodomains: Case Studies of Geoi in Hydrological Application	Session One
53	Samantha	Howley	University of Florida	Tracing Frequency and Magnitude of Flow Reversals in Florida Springs	Session One
73	Navdeep	Kaur	University of Florida	Assessment of Hemp Variety and Measuring Leaching Losses in Response to Different Nitrogen Rates	Session One
55	Deirdre	Love	University of Florida	Examining the Practice of Pre-Washing Pyrethroid Treated Nets to Mitigate Toxicity in Invertebrates	Session One
57	Leslie	Munroe	University of Florida IFAS Extension	Highlighting Florida Natives in a Commercial Landscape	Session One
59	Gregory	Owen	Alachua County	Evaluating Restoration Activities to Better Prioritize a Hierarchy of Needs in Florida's Springs	Session One
61	Patrick	Saldaña	University of Florida	Macroalgae Decay Rates and Diversity Effects on Sediment Biogeochemistry in a Florida Estuary	Session One
63	Adam	Siders	University of Florida	Assessing the Effects of Florida Manatees and Humans on Nutrient Uptake Rates in Kings Bay, FL	Session One
65	Leanne	Stepchinski	University of South Florida	Influence of Hydrologic Connectivity on the Natural Flow Regime of Archetypal Wetland Complexes	Session One

Water Quality Drivers and Impacts on Public Wildlife and Ecosystem Health (continued)

Poster #	First Name	Last Name	Organization	Abstract Title	Poster Session
67	Gretchen	Stokes	University of Florida	Assessing Anthropogenic Stressors to Global Freshwater Habitats and Inland Fisheries	Session One
69	Osama	Tarabih	University of South Florida Tampa	Effects of Lake Okeechobee Operation Schemes on Phosphorous Exports	Session One
71	Henry	Tingle	University of Florida	The “Sipper” Drone-based Water Sampling System	Session One
28	Piyush	Agade	University of Florida	Gatorbyte – A Low-Cost Mobile Real-Time Water Resource Monitoring Platform	Session Two
60	Mandy	Baily	University of Florida	Youth Education and Skill Development for a Generational Impact on Water Quality of the Indian River	Session Two
36	Ronell	Bridgemohan	Watershed Management Laboratory, UF WFREC	Microbial Risk Assessment to Determine the Level & Sources of Fecal in NW Florida Urban Streams	Session Two
40	Juma	Bukomba	University of Florida	Nitrogen Dynamics & its Fate in Inorganic Forms in Sandy Soils Under a Cover Crop System in Florida	Session Two
38	Alvaro	Carmona-Cabrero	University of Florida	Improving the Prediction of Sediment Particle Size for Engineering Vegetative Filter Strips	Session Two
42	Nicholas	Chin	UF Watershed Ecology Lab	Quantifying the Effects of National Water Model Prediction Error on Nearshore Hydrodynamic Forecasts	Session Two
46	Alexandra	Feldman	University of Florida	Impact of Hydrologic Regime on Soil Organic Matter Accumulation in a Stormwater Treatment Wetland	Session Two
48	Audrey	Goeckner	University of Florida	Water Column Saturation Profiles of N ₂ , CO ₂ , and CH ₄ in Natural and Constructed Subtropical Ponds	Session Two
44	Sergio	Gonzalez	University of Florida	Wetland Pulse Amplitude Better Predicts Aquatic Species Richness than Static Wetland Size	Session Two
50	Casey	Harris	University of Florida	Long-Term Surface Water Quality Trends Relevant to Drinking Water Supply in Tampa, Florida	Session Two
52	Andrew	James	Soil and Water Engineering Technology, Inc.	Watershed Assessment Model Used to Evaluate Restoration Options for the Bob Janes Preserve	Session Two
54	Dogil	Lee	University of Florida	Modeling the Impacts of Agricultural Management Practices on Groundwater in the Santa Fe River Basin	Session Two
58	Brooke	Moffis	UF/IFAS	Multispecies Lawns: An Alternative Strategy for Lawn Resiliency and Ecosystem Functions	Session Two
56	Amanda	Muni-Morgan	University of Florida	Karenia Brevis Utilization of Dissolved Organic Nitrogen in Wastewater and Stormwater Pond Effluent	Session Two
62	John	Roberts	UF/IFAS Orange County Extension	Soil Denitrification Dynamics in Urban Impacted Riparian Zones throughout Tampa, FL	Session Two
74	Ayush	Sharma	University of Florida	Sulfur as Leaching Prone Nutrient	Session Two
64	Yuseung	Shin	University of Florida	Abiotic Causality of Metabolic Processes in Rivers	Session Two
66	Cody	Stewart	University of South Florida	Stormwater Baffle Box Performance: A Case Study of Baffle Boxes in the City of Tampa	Session Two
68	Praveen	Subedi	University of Florida	Enzymatic Hydrolysis of Dissolved Organic Phosphorus in the Everglades STA Source Waters	Session Two
70	Emily	Taylor	University of Florida	Alterations of Dissolved Organic Material Composition and Its Influence on Ecosystem Respiration	Session Two
72	Rob	Taylor	UF Watershed Ecology Lab	Measuring Submerged Aquatic Vegetation Motion Using Digital Video Analysis	Session Two

Water Governance and Environmental Justice

Poster #	First Name	Last Name	Organization	Abstract Title	Poster Session
29	Farah	Aryan	University of Florida	The Effects of Colonization on Water Distribution in Indigenous Lands: Case Studies in the Navajo Nation and Palestine	Session One
31	L. Donald	Duke	Florida Gulf Coast University	Wind, Water, and Public Safety: Socioeconomic Disparities in Hurricane Safety, South Florida Housing	Session One
33	Tania	Romero Bautista	Florida International University	Systematic Review and Stakeholder Roadmap for Freshwater Policies in the Peruvian Amazon	Session One
35	Jobel	Villafane-Pagan	University of Puerto Rico - Mayaguez	The Mother Map: Rio Grande de Manatí Watershed and the Human Impact on Natural Resources	Session One
30	Natalie	Cooper	University of Florida	A Comparison of Relationships with Nature among Water Stakeholders in North Florida	Session Two
32	Fei	He	University of Florida	Profitability of Alternative Nutrient and Irrigation Management Systems in Corn, Peanut, and Carrot	Session Two
34	Abby	Vidmar	University of South Florida	Water, Sanitation, and Health in Urban Disadvantaged Unincorporated Communities	Session Two

Water Availability Valuation Allocation and Reuse

Poster #	First Name	Last Name	Organization	Abstract Title	Poster Session
75	Dylan	Barr	University of Florida	Researching the Efficacy of Reclaimed Water BMPS for Nutrient Load Reductions in Residential Areas	Session One
77	Tyelyn	Brigino	University of South Florida	Influence of Groundwater on Streamflow in Salmon-Bearing Streams	Session One
83	Katie	Glodzik	University of Florida	Scenario Planning Tool for Forest Water Yield in North Florida	Session One
81	Caleb	Gravesen	University of Florida	Wastewater Treatment Residuals and Native Per- and Polyfluoroalkyl Substances	Session One
85	Yi	Han	University of Florida	Machine Learning-Based Probabilistic Ensemble for Urban Water Demand Forecasting	Session One
79	Esther	Lee	University of Florida	Understanding the Hydrologic Connectivity between Upland Forests and Wetlands	Session One
87	Jia-Yi	Ling	University of Florida	Streamflow Forecasting in West-Central Florida Using Climate Drivers	Session One
91	Hanyu	Qian	University of Florida	Improved Sensor-Analytical Point Solutions (Snaps) For E. Coli in Irrigation Water by Integration of Statistical Machine Learning	Session One
89	Amir	Rezazadeh	University of Florida	Pongamia: An Environmentally Friendly Alternative Crop for Citrus Growers	Session One
93	Patricia	Spellman	University of South Florida	Quantifying Vadose Storage and Release in a Young, Uplifted Karst Aquifer Using Spectral Analysis	Session One
95	Sarah	Strohmingner	University of Florida	A Household Cost-Benefit Analysis of Impacts from Fog Water Access in Southwest Morocco	Session One
76	Lorna	Bravo	Broward County Ext. Ed. Urban Horticulture and Natural Resources	Development of Advanced Water Extension Programs for MGVs	Session Two
78	Judyson	de Matos Oliveira	University of Florida	Least Limiting Water Range in Irrigated Sandy Soils of Northeast Florida	Session Two

Water Availability Valuation Allocation and Reuse (continued)

Poster #	First Name	Last Name	Organization	Abstract Title	Poster Session
86	Alexandra	Dixon	University of Florida	Historical Use of Irrigation in Response to Regional Drought	Session Two
80	Ronald	Fox	University of Florida	Assessment of Soil Amendment Types and Rates for Reduced Turfgrass Irrigation	Session Two
84	Edgar	Guerron Orejuela	University of South Florida	Groundwater Risk and Resilience in Social-Hydrological Systems	Session Two
82	Samuel	Kwakye	University of Florida	Assessing Citrus Water Use with Lysimetry Using Evapotranspiration-Based Irrigation in Florida	Session Two
88	Eduart	Murcia Botache	University of Florida	Improving Water-Use Efficiency of Irrigation Systems with ML, and Soil Moisture and Weather Data	Session Two
90	Renee	Price	Atkins North America/UF	Turning Down the Pumps: Variable Hydrologic Response to Passive Restoration among Wetland Types	Session Two
92	Sharmin	Siddiqui	University of Florida	Effects of Wildfires on Annual Streamflow Response in the Southeastern Amazon	Session Two
94	Eric	Whiteside	The University of Florida and Applied Technology & Management	Tidally-forced Index-velocity Relationships in the Waccasassa River	Session Two

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